AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for producing a coil, comprising the steps of: coating electrical wire using UV-curable baking enamels containing

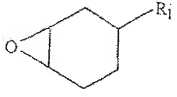
a) 50%-95% by weight of oxirane-based binders,

b) 1%-10% by weight of UV crosslinking catalysts,

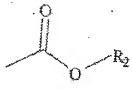
c) 0-80% by weight of reactive diluents,

d) 0-40% by weight of chain transfer agents, and

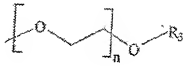
e) 1%-8% of further additives; and winding the wire to form a coil, wherein, as baking enamel, cycloaliphatic oxirane compounds are used of the general form



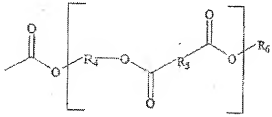
where R_1 can be a hydrogen, a carboxylate radical of the indicated form



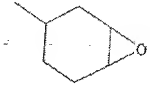
a polyether radical of the formula



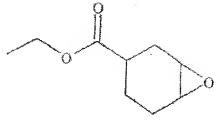
with n=1-50 or a polyester radical of the following form



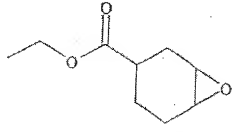
where R_2 is a methyl, ethyl, propyl or butyl radical or a further oxirane compound of the following form



and R_3 is a hydroxyethyl radical or an oxirane compound of the following form



R_4 and R_5 describes an aliphatic hydrocarbon chain of 2-6 carbon units, it being possible in addition for R_5 to be a phenylene radical, and R_6 is a hydroxyalkyl radical having 2-6 carbons or an oxirane compound of the following form



wherein after the electrical wire has been coated with baking enamel, said enamel is fully cured by means of ultraviolet radiation.

2. (Previously presented) The method of claim 1, wherein baking enamels are used containing

a) 60%-93% by weight of oxirane-based binders,

b) 2%-6% by weight of crosslinking catalysts,

c) 0-70% by weight of reactive diluents,

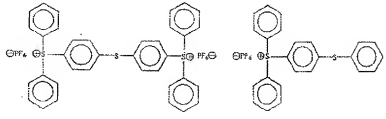
d) 0-30% by weight of chain transfer agents, and

e) 1%-3% of further additives.

3. (Canceled)

4. (Previously presented) The method of claim 1, wherein at least one photoinitiator suitable for cationic photopolymerization is added.

5. (Previously presented) The method of claim 4, wherein, as a photoinitiator, a mixed arylsulfonium hexafluorophosphate salt of the following form



is added.

6. (Previously presented) The method of claim 1, wherein a baking enamel is used whose component a) is prepared using methyl 3,4-epoxycyclohexanecarboxylate.

7. (Previously presented) The method of claim 6, wherein a

baking enamel is used whose component a) has been prepared using polyethylene glycol.

8. (Canceled)

9. (Canceled)

10. (Previously presented) The method of claim 1, wherein component d) comprises polyester polyols having molecular weights of between 500 and 2000 g/mol.

11. (Previously presented) The method of claim 1, wherein component d) comprises polyester polyols having an average molecular weight of between 500 and 1000 g/mol.

12. (Previously presented) The method of claim 1, wherein component e) comprises additives or stabilizers or mixtures thereof.

13. (Canceled)

14. (Canceled)